

PERMIT ATTACHMENT C DESIGN AND OPERATION OF THE CONTAINER STORAGE FACILITY

Introduction

For the purposes of this permit, Rinchem Company, Inc., considers the Container Storage Facility (**the Facility**) to be separated into two areas. The active permitted operational unit areas, and the solid waste management unit area. The active permitted operational unit area includes the building containing the storage areas, the docks and the collection tank connected to the flammable storage area. The rain water impoundments and drainage areas (See *Rainwater & runoff containment areas* on Figure C-1) within the fenced-in boundaries are considered possible solid waste management units (**SWMUs**). Further information on these SWMUs is provided in Permit Attachment L, *Corrective Action Management Units*. Figure C-1 shows the location of the various units comprising the Facility. The photographs on pages three through five show the storage rooms of the Facility.

The Facility has been in operation since January 1, 1987 and has been used as a transfer station for wastes with the following U.S. Department of Transportation hazardous classes: 2.1, 2.2, 2.3, 3.0, 4.1, 4.2, 4.3, 5.1, 5.2, 6.0, 6.1, 6.2, 8.0 and 9.0.

Description of Permitted Units of the Facility:

Rooms A & B: Controlled Temperature Storage Areas

These active storage units are specifically designed to warehouse chemicals for distribution and waste that are sensitive to temperature changes. These areas are approximately 25 feet x 50 feet each and have a four-hour fire wall on the south end and a two-hour fire wall to the west end separating them from the other storage areas. The approximate chemical storage capacity for each unit is 15,840 gallons. The floor is recessed four inches below the stem wall and slopes to a catch basin. The expansion joints in the floor are caulked and the floor is sealed with epoxy to prevent possible contamination of the soil should a spill occur. No releases to report in these areas.

Rooms C & D Storage Areas

These active storage units are designed to warehouse chemicals and hazardous wastes for subsequent transfer to off-site facilities. Rooms C and D are approximately 100 feet x 50 feet each. The approximate chemical storage capacity for room C is 79,860 gallons and room D is 73,900 gallons. The floor in both rooms is recessed four inches from the stem wall and the joints in the floor are caulked. The floor has an epoxy seal on it to prevent contamination of the soil should a spill occur.

All walls running north and south are four- hour fire walls and all east west walls are two-hour fire walls. No reportable releases to report.

Rooms E & F Storage Areas

These active storage units which are specifically designed to warehouse chemicals are located at the south end of the Facility and are approximately 110 feet x 50 feet in size each. The approximate chemical storage capacity for each unit is 81,800 gallons. The walls of the building are four-hour fire walls. Floors in the warehouse are recessed four inches below the stem wall, expansion joints are caulked ,and the floor is sealed with epoxy to prevent possible contamination of the soil should a spill occur. The floor slopes to the aisles to expose any spill quickly. This area stores prepackaged chemicals for distribution and spent wastes. No releases to report in these areas.

Additional Container Information

All floors in storage areas A, B, C and D are recessed four inches below the concrete stem wall and storage areas E and F are recessed six inches below the stem wall. The concrete is sealed and the expansion joints are caulked to prevent possible contamination of the soil should a spill occur. The capacity of the secondary containment system is at least 10% of the volume of the containers stored there.

In storage areas A, B, C, E and F, the floors are sloped away from the storage bays towards the aisles. Storage Area D is divided into six bays which are each sloped to drains situated in the center of the bay. The drains lead to a 500 gallon cement tank behind the building under the dock. This tank is housed in another concrete watertight tank which has a volume of 3,790 gallons. Both tanks have removable vented lids to allow for visual inspection and removal of any spilled or leaked waste.

Run-on into the containment system is prevented in two ways. Firstly, the storage areas with containment systems are inside the building preventing any rain from entering the storage area. Secondly, the Facility was elevated five feet above the surrounding land when it was constructed. This prevents any flooding into the containment system.

If a spill occurs, Rinchem shall evaluate and clean it up in as timely a manner as possible to prevent further contamination and overflow of the containment system. The fact that the floors in the storage areas are sloped towards the aisles allows a spill or leak to be detected quickly.

Rinchem shall store all ignitable and reactive wastes as well as all other wastes are stored in the areas indicated in Figure C-1. These storage areas (S0₁) are more than 50 feet away from Rinchem's property line. As it has been previously mentioned, all storage containers holding hazardous waste that is incompatible with other materials shall be separated and protected from these materials by cinderblock walls, stem walls and ramps in between the storage areas as follows:

1. All containers holding hazardous materials to be stored at Rinchem's Facility shall be inspected prior to acceptance to insure proper condition of the container and compatibility of material with container. Any container not meeting these criteria shall have its contents transferred to an appropriate container at that time.
2. A container holding hazardous waste shall not be handled or stored in a manner which may cause it to leak and shall only be opened to add or remove waste as necessary.
3. No incompatible wastes shall ever be placed in the same container unless the proper precautions are taken to prevent reactions which:
 - Generate extreme heat or pressure, fire or explosions, or violent reactions;
 - Produce uncontrolled toxic mists, fumes, dusts or gases in sufficient quantities to threaten human health or the environment;
 - Produce uncontrolled flammable fumes or gases in sufficient quantities to pose a risk of fire or explosions;
 - Damage structural integrity of the Facility; and
 - Through other like means threaten human health or the environment

Hazardous waste shall not be placed in an unwashed containers that previously held an incompatible waste or material. Other preventive measures are described in Attachment G , *Preparedness and Prevention*.